

**DEPARTMENT OF THE AIR FORCE
HQ AIR INTELLIGENCE AGENCY**



AFI 21-105

**AIA
Supplement 1**

20 August 1999

Maintenance

**AEROSPACE EQUIPMENT STRUCTURAL
MAINTENANCE**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: HQ AIA/LGMY (Mr. Carl F. Koscielski)
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AFI 21-105, 1 June 1999, is supplemented as follows:

This supplement addresses AFI 21-105, , *Aerospace Equipment Structural Maintenance*, and outlines procedures and responsibilities for identifying structural defects in aerospace equipment and developing methods to correct those defects. Units augmenting this instruction must coordinate with the Integrated Electronic Systems Management Branch (HQ AIA/LGMY) and publish as a local operating instruction. HQ AIA/LGMY is the office of primary responsibility (OPR) for requests to deviate from this instruction. This supplement applies to all Air Intelligence Agency (AIA) activities and AIA-gained Air Force Reserve units. It does not apply to AIA-gained Air National Guard units.

SUMMARY OF REVISIONS

Updates terminology and replaces numbers to more closely align the format with existing instructions. It redefines the responsibilities of HQ AIA/LGMY; wing, group, and center director of logistics; unit and detachment commanders; and chiefs of logistics. It updates annual summary report contents to include documentation of annual training program reviews and Preventative Maintenance Inspection (PMI) assessments. It extends time to start initial training of arriving personnel.

1. HQ AIA and associated organizations are responsible according to AFI 21-105, major command (MAJCOM) responsibilities for developing corrosion-related policy for the agency. It provides guidance to minimize the impact and effects of corrosion on maintenance and extend the service life of AIA's communications-electronics systems, subsystems, and support equipment.

2.2. (Added) Air Force Corrosion Program. HQ ALA/LGMY is the OPR for managing the Air Force Corrosion Program within AIA. HQ AIA/LGMY is the focal point for corrosion issues. HQ AIA/LGMY:

2.2.1. Provides guidance on corrosion control requirements for newly acquired equipment and systems.

2.2.2. Attends Air Force Corrosion Program Conferences. Addresses and seeks assistance with action items that affect AIA, or of interest to AIA's maintainers and the operational mission. Disseminates information concerning new corrosion prevention technology that would benefit the overall corrosion prevention program.

2.2.3. Assists units with:

2.2.3.1. Developing and implementing an effective corrosion prevention and control program.

2.2.3.2. Unique corrosion problems in determining actions and technical solutions.

2.2.3.3. Reviewing known corrosion problems and in identifying areas requiring additional corrosion treatment attention.

2.2.4. When requested by the wing or centers, reviews unit's corrosion treatment capabilities and provides alternate solutions that can best utilize local and other support areas to treat corrosion in cases that are beyond their ability to effectively remove or treat corrosion damage.

2.2.5. Acts as liaison and coordinates with other government activities to provide support for the corrosion problems beyond the unit's capability that require depot level corrosion treatment or that might be better accomplished through the host tenant support agreement, DoD corrosion activities, or contract support.

2.3. (Added) Corrosion-Related Issues. The Transportation Element (HQ AIA/LGSP) advises HQ AIA/LGMY on corrosion-related issues pertaining to vehicles, and mobilizers. The Technical Support Branch (HQ AIA/XP) advises HQ AIA/LGMY on corrosion-related issues pertaining to vehicles and mobilizers.

2.4. (Added) The 67th Intelligence Wing, Director of Logistics (67 IW/LG), AIA centers, and groups/LGs:

2.4.1. Report significant corrosion problems beyond unit capabilities (e.g., antenna support structural damage) as they occur to HQ AIA/LGMY.

2.4.2. By 15 February of each year, consolidate inputs from subordinate activities and submit an annual summary report to HQ AIA/LGMY that includes, as a minimum:

2.4.2.1. Follow-on reporting of significant corrosion problems beyond unit capabilities (ref 2.4.1. above) if the problem has not been resolved.

2.4.2.2. Forward corrosion related information of potential value to other groups and centers as maintenance program crossfeed.

2.5. (Added) Each Unit or Detachment Commander: Emphasizes to the base financial working group and base facilities board the need for priority corrosion treatment of real-property such as antenna-support structures. Antenna-support structures must receive timely corrosion treatment to avoid premature replacement, injury to personnel, or mission loss.

2.5.2. Ensures support structures are properly identified on the intraservice support agreement or the host-tenant agreement.

2.5.3. Prepares a directive designating specific responsibilities for implementation of a comprehensive corrosion control program within the unit or detachment. As a minimum, the directive:

2.5.3.1. Appoints an individual as unit systems and subsystems exterior surfaces provide maximum corrosion and erosion protection while responsibilities and corrosion control monitor.

2.5.3.2. Identifies and assigns on AIA for inspecting, maintaining, and reporting corrosion on vehicles, support structures, and other assigned equipment.

2.5.3.3. Ensures protective coatings used meeting environmental compliance with local, state, federal, and overseas regulatory requirements. Other characteristics to consider are ease of application, removal and economy.

2.6. (Added) Each Chief Of Logistics: Develops and implements initial corrosion control training requirements using the AFJQS 2EXXX-201C/2EXXX-201.3, and the attached AFQTP (Qualification Training Package), Corrosion Prevention and Control, as the foundation. Corrosion prevention and control training will included additional corrosion awareness training for all personnel performing maintenance inspections and maintaining equipment to included assigned vehicles, shelters, generators, and other support equipment when needed.

2.6.1.1. Ensures initial corrosion prevention and control training for newly assigned personnel is initiated within 90 days of assignment and emphasizes specific unit or detachment corrosion program objectives.

2.6.1.2. Ensures corrosion awareness consist of current initiatives for corrosion prevention and identification of common problem areas. Other subject areas include: corrosion-damage assessment, new or improved repair procedures, reporting requirements, and documentation.

2.6.1.3. Ensures newcomers are waived from initial corrosion training if prior training has been accomplished using the AFQTP during the last 5 years. They are still required to attend a corrosion prevention awareness briefing on current issues and typical problem areas in the duty section.

2.6.2. Annually reviews corrosion control and prevention training programs and updates the programs as required. This can be documented through the annual report as referenced in 2.4.2.3. of this supplement.

2.6.3. Ensures stock listed or qualified Manages stocklisted or qualified material be used during installation and maintenance, thereby reducing problems in material compatibility, logistics support, training, and management. Ensures the unit corrosion practices meet safety and health requirements.

2.6.4. Annually assesses the unit or detachment corrosion control workload and budget for materials, personnel, tools, and equipment needed to perform corrosion-related repairs.

2.6.5. Keeps the unit and detachment's respective group or center informed of the results of its annual corrosion program assessment. This includes corrosion related problems beyond unit and detachment capabilities, ongoing or planned corrosion-related projects and initiatives, and corrosion-related information of potential value to other AIA activities as a maintenance crossfeed item.

2.6.6. Ensures local preventative maintenance instruction (PMI) intervals are assessed annually to guarantee local corrosion problems are adequately identified and treated. The accomplishment of this assessment can be documented through the annual report as referenced in 2.2.4.2.3. of this supplement.

2.6.7. Ensures corrosion related problems are documented in the maintenance data collection system (MDC) for mission equipment and systems. Report corrosion problems using the MDC system, Material

Deficiency Reports, AFTO Form 22, **Technical Order System Publication Improvement and Reply**, or directly to the Maintenance Management & Policy Branch (HQ AIA/LGMM), as appropriate.

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